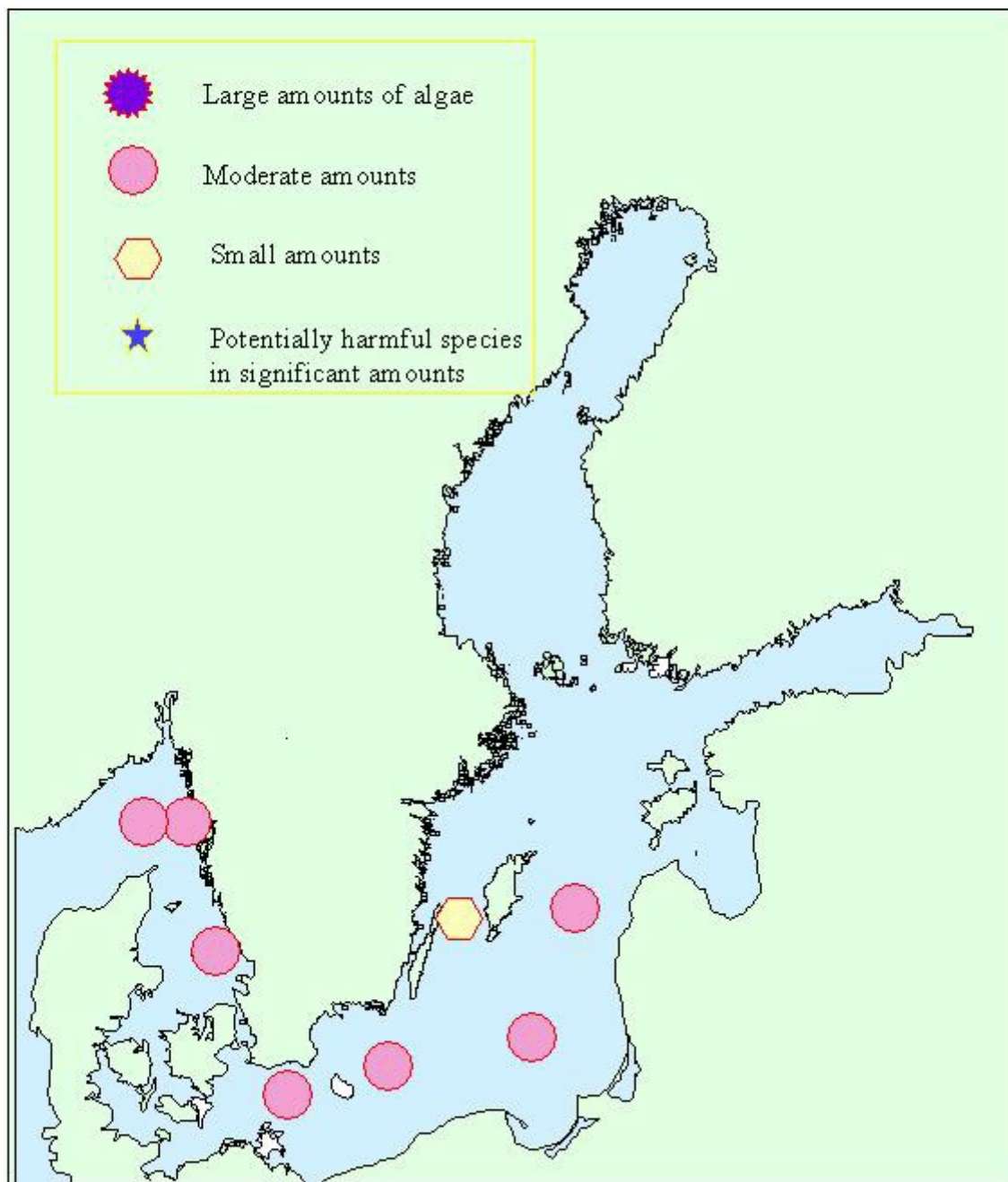


**ALGAL SITUATION IN SWEDISH MARINE WATERS
No 4, 2000, 10-15 JULY**

OVERVIEW

* POTENTIALLY HARMFUL SPECIES



ALGAL SITUATION IN SWEDISH MARINE WATERS No 4, 2000, 10-15 JULY

DETAILS

* POTENTIALLY HARMFUL SPECIES

Sampling in the Skagerrak, the Kattegat and the Baltic Sea

SKAGERRAK

Station Å17, 10 JULY

Chlorophyll in the upper 10 meters about 1 mg/m³.

Dinoflagellate species common. *Ceratium furca*, *C. fusus*, *C. longipes*, *C. macroceros*, *C. tripos*, *Dinophysis acuminata**, *D. acuta** and *D. norvegica** common. Several species of *Protoperidinium* with *P. depressum*, *P. divergens* and *P. steinii* most abundant. Small amounts of *Lingulodinium polyedrum*, *Scrippsiella* spp., *Prorocentrum micans* and cf. *Alexandrium* sp.*. Small amounts of diatoms, with a dominance of *Proboscia alata* and *Dactyliosolen fragilissimus*.

Top 5

Ceratium furca

*Dinophysis norvegica**

Dinophysis acuta *

Proboscia alata

Protoperidinium steinii

Station Släggö, 10 JULY

Chlorophyll in the upper 10 meters 1-2 mg/m³.

Dinoflagellate species common. *Ceratium furca*, *C. fusus*, *C. longipes*, *C. tripos*, *Dinophysis acuminata**, *D. acuta** and *D. norvegica** common. Several species of *Protoperidinium* with *P. depressum*, *P. divergens* and *P. steinii* most abundant. Small amounts of *Lingulodinium polyedrum*, *Gonyaulax verior* and *Phalacroma rotundatum**. Small amounts of diatoms, with a dominance of *Leptocylindrus danicum*, *Proboscia alata* and *Dactyliosolen fragilissimus*. The large centric diatom *Coscinodiscus wailesii* also present.

Top 5

Ceratium furca

*Dinophysis norvegica**

Dinophysis acuminata *

Gonyaulax verior

Proboscia alata

KATTEGAT

Station Anholt E, 11 JULY

Chlorophyll in the upper 10 meters about 1 mg/m³.

Rich dinoflagellate flora with *Ceratium furca*, *C. fusus*, *C. longipes*, *C. tripos*, *Dinophysis acuminata**, *D. acuta** and *D. norvegica**. Small amounts of *Lingulodinium polyedrum*, *Gonyaulax verior*, *Heterocapsa*

triquetra, *Scrippsiella* spp. and cf. *Alexandrium* sp.*. Small amounts of diatoms, with a dominance of *Proboscia alata* and *Dactyliosolen fragilissimus*.

Top 5

Ceratium tripos

Proboscia alata

Ceratium furca

Dactyliosolen fragilissimus

Scrippsiella spp.

Station Anholt E, 15 JULY

Chlorophyll in the upper 10 meters about 1 mg/m³.

Considerably fewer dinoflagellates than four days earlier. Ceratians relatively common. Among *Dinophysis* only *D. norvegica** present. Diatoms more common. *Proboscia alata* dominated, followed by *Dactyliosolen fragilissimus*, *Guinardia delicatula* and *Thalassionema nitzschioides*. Single filaments of *Nodularia spumigena** also observed.

Top 5

Proboscia alata

Ceratium tripos

Dactyliosolen fragilissimus

Guinardia delicatula

Thalassionema nitzschioides

BALTIC SEA

Arkona basin. Station BY2, 11 JULY

Chlorophyll in the upper 10 meters 1-2 mg/m³.

Aphanizomenon sp. dominated. Other blue-green algae present were *Nodularia spumigena**, *Snowella/Woronichinia* spp. and *Anabaena* spp.. The diatoms *Chaetoceros impressus*, *Actinocyclus octonarius* and *Attheya septentrionalis* were present in small amounts. Single cells of *Ceratium longipes* and *Dinophysis acuminata**, as well as *Chrysochromulina* sp.* and *Cryptophyceans* were observed.

Top 5

Aphanizomenon sp.

Chaetoceros impressus

Nodularia spumigena

Snowella/Woronichinia spp.

Cryptophyceans

Bornholm basin. Station BY5, 12 JULY

Chlorophyll in the upper 10 meters 1-2 mg/m³.

Diatoms with *Actinocyclus octonarius* and *Chaetoceros impressus* dominated together with the blue-green algae *Aphanizomenon* sp., *Nodularia spumigena**, *Anabaena* spp. and *Snowella/Woronichinia* spp. Dinoflagellates were rare with only single cells of *Ceratium tripos*, *Scrippsiella* sp. and *Dinophysis norvegica**. Small amounts of *Thalassiosira* sp. and *Planktonema lauterbornii* also seen.

Top 5

Actinocyclus octonarius
Aphanizomenon sp.
Nodularia spumigena*
Chaetoceros impressus
Anabaena spp.

Southeast Baltic, Station BCS III 10, 12 JULY

Chlorophyll in the upper 10 meters about 2 mg/m³.

Aphanizomenon sp., *Nodularia spumigena** and *Anabaena* spp. relatively common. Among dinoflagellates *Scrippsiella* spp., *Dinophysis acuminata** and *D. norvegica** were the most abundant. The diatoms *Actinocyclus octonarius* and *Chaetoceros impressus* were also relatively common. Other species observed were *Planktonema lauterbornii*, *Ebria tripartita* and *Chrysochromulina* spp*.

Top 5

Aphanizomenon sp.
Nodularia spumigena*
Chaetoceros impressus
Actinocyclus octonarius
Anabaena spp.

Eastern Gotland basin, Station BY15, 13 JULY

Chlorophyll in the upper 10 meters 2-5 mg/m³.

Aphanizomenon sp. and *Nodularia spumigena** relatively common. Other blue-greens present were *Snowella/Woronichinia* spp. and *Anabaena* spp., *Dinophysis acuminata** and *D. norvegica** together with *Actinocyclus octonarius* and *Chaetoceros impressus* also present.

Top 5

Aphanizomenon sp.
Nodularia spumigena*
Chaetoceros impressus
Dinophysis norvegica*
Snowella/Woronichinia spp.

Western Gotland basin, Station BY38, 13 JULY

Chlorophyll in the upper 10 meters about 2 mg/m³.

Aphanizomenon sp. and *Nodularia spumigena** present. Small amounts of *Anabaena* spp, *Dinophysis norvegica**, *Actinocyclus octonarius* and *Chaetoceros impressus*.

Top 5

Nodularia spumigena*
Aphanizomenon sp.
Dinophysis norvegica*
Chaetoceros impressus
Anabaena spp.

This report is based on qualitative samples between 0 and 10 m. Chlorophyll values are rough estimates based on profiles of fluorescence.

FORECAST

The typical plankton flora of the summer is dispersed in the upper 20 meters. The present weather situation however, does not give rise to surface accumulations of algae.